PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: EDWARD N. BACHAND DORSEY & WHITNEY LLP 4 EMBARCADERO CENTER SUITE 3400 SAN FRANCISCO, CA 94111 Comments on Abstract due /2/28/3 Repn to Int'l Search due /28/04	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1)				
Review Foreign Refs (U.S.) 12/28/03	Date of Mailing (day/month/year) 28 NOV 2003				
Applicant's or agent's file reference FP70048/ENB FOR FURTHER ACTION See paragraphs 1 and 4 below					
International application No. PCT/US03/08043	International filing date (day/month/year) 14 March 2003 (14.03.2003)				
Applicant KEIMAR CORPORATION	14 Water 2005 (14.05.2005)				
	ch report has been established and is transmitted herewith.				
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the cla					
When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.					
Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35					
For more detailed instructions, see the notes on the accompanying sheet.					
The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.					
3. With regard to the protest against payment of (an) additional a	ional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.					
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.					
4. Reminders					
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.					
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.					
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.					
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.					
Name and mailing address of the ISA/US	Authorized officer				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Max F. Hindenburg Diane Russele for				
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (703) 308-0858					

Facsimile No. (703)305-3230 Form PCT/ISA/220 (April 2002)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FP70048/ENB	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
International application No. PCT/US03/08043	International filing date (day/moil 14 March 2003 (14.03.2003)	onth/year) (Earliest) Priority Date (day/month/year)			
Applicant KEIMAR CORPORATION					
_	being transmitted to the International	Searching Authority and is transmitted to the applicant Bureau.			
It is also accomp	panied by a copy of each prior art docu	ument cited in this report.			
	age, the international search was carried filed, unless otherwise indicated under	ed out on the basis of the international application in the this item.			
Authority (Rule 23.1(b). With regard to any nucle	o)).	slation of the international application furnished to this closed in the international application, the international			
contained in the intern	contained in the international application in written form.				
filed together with the international application in computer readable form.					
furnished subsequently to this Authority in written form.					
furnished subsequently to this Authority in computer readable form.					
	subsequently furnished written sequence on as filed has been furnished.	e listing does not go beyond the disclosure in the			
the statement that the i	nformation recorded in computer readab	ble form is identical to the written sequence listing has			
2. Certain claims were f	ound unsearchable (See Box I).				
3. Unity of invention is I	acking (See Box II).				
4. With regard to the title,	submitted by the applicant				
	submitted by the applicant. lished by this Authority to read as follow	wo.			
Apparatus and Methd for Ascertainin	•	ws.			
5. With regard to the abstract,					
the text is approved as	submitted by the applicant.				
	<u> </u>	is Authority as it appears in Box III. The applicant may, il search report, submit comments to this Authority.			
6. The figure of the drawings to b	be published with the abstract is Figure 1	No. <u>1</u>			
as suggested by the app	olicant.	None of the figures			
because the applicant f	ailed to suggest a figure.				
because this figure bett	er characterizes the invention.	•			

Form PCT/ISA/210 (first sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/08043

Roy	TIT	TEXT	OF THE	ARSTRACT	(Continuation of	of Itam	5 of the fi	irct chaot)
DUX		ICAI	Or Inc	ADSIKACI	-tContinuation t	oi iteiir	ou me n	irst sneeti

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

An apparatus (21) for ascertaining cardiac output of the heart of a patient comprises a control and display module (22). A venous probe is inserted into a vein in the forearm of the patient and is coupled into the control and display module (22). The venous probe provides an electrical signal representing the dissolved oxygen in the venous blood. An arterial probe (23 and 24) is inserted into an artery in the forearm (26) of the patient and is coupled to the display and control module (22). The arterial probe provides an electrical signal representing the dissolved oxygen in the arterial blood. The control and display module (22) has a visible display (102) that provides a continuous in vivo cardiac output that utilizes an arterial venous oxygen differential equation, which includes an adjustment factor for adjusting for venous blood being sampled rather than mixed venous blood in the pulmonary artery of the patient.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/08043

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61B 5/02				
US CL : 600/526				
	International Patent Classification (IPC) or to both na	tional classification and IPC		
	DS SEARCHED			
	cumentation searched (classification system followed to 00/526,300-301,309,311,322-327	by classification symbols)		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic da	ta base consulted during the international search (name	e of data base and, where practicable, sear	ch terms used)	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
Y	US 5,651,767 A (SCHULMAN et al.) 29 July 1997	(29/07.1997) Figures 1-6.	8, 10, 11, 13	
Α			1-7, 9, 12, 14, and 15	
Y 	US 4,221,567 A (CLARK et al.) 9 September 1980	(09.09.1980), Figures 1 and 2.	8, 10, 11, and 13	
Α			1-7, 9, 12, 14, and 15	
Y	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		10	
Α			1-7, 9, 12, 14, and 15	
Α	A US 5,928,155 A (EGGERS et al.) 27 July 1999 (27.07.1999) entire document 1-15		1-15	
A	A US 3,905,888 A (MINDT et al.) 16 September 1975 (16.09.1975) entire document		1-15	
Α	US 4,919141 A (ZIER et al.) 24 April 1990 (24.04.)	1990) entire document.	1-15	
Further	documents are listed in the continuation of Box C.	See patent family annex.		
	pecial categories of cited documents: defining the general state of the art which is not considered to be	"T" later document published after the inte date and not in conflict with the applic principle or theory underlying the inve	ation but cited to understand the	
of particu	of particular relevance "X" document of particular relevance; the claimed invention cannot be			
"L" document	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" when the document is taken alone "Y" document of particular relevance; the		
specified)		considered to involve an inventive step combined with one or more other such	when the document is documents, such combination	
	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the		
P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed				
Date of the actual completion of the international search 28 July 2003 (28.07.2003) Date of mailing of the international search report 28 NOV 2003				
20 July 2005 (20.07.2005)				
Con	I Stop PCT, Attn: ISA/US nmissioner for Patents	Max F. Hindenburg Deane Russele for		
Ale	Alexandria, Virginia 22313-1450			
Facsimile No. (703)305-3230				

Form PCT/ISA/210 (second sheet) (July 1998)

PCT/US03/08043

INTERNATIONAL SEARCH REPORT

C. (Contin	uation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,322,063A (ALLEN et al.) 21 June 1994 (21.06.1994) entire document.	1-15
A	US 5,409,666 A (NAGEL et al.) 25 April 19995 (25.04.1995) entire document.	1-15
Α	US 6,064,900 A (VAGDAMA et al.) 16 May 2000 (16.05.2000) entire document	1-15
Α	US 5,971,934 A (EGGERS) 04 August 1998 (04.08.1998) entire document	1-15
Α	US 4,819,655 A (WEBLER) 11 April 1989 (11.04.1989) entire document	1-15
Α	US 5,944,695 A (JOHNSON et al.) 31 August 1999 (31.08.1999) entire document	1-15
		·
	,	•
		•